

Application/Control Number: 10/645,926

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CLMPTO

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DH

Cancel claims 1-13.

Add 14-26.

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14. (Currently Amended) A radio portable terminal device, comprising:
a radio communication unit for carrying out communications with a correspondent device connected to a computer network or a telephone network, through a radio base station by exchanging data packets; and
a packet transfer processing unit for determining whether a prescribed condition regarding communication cost is satisfied for the communications with the correspondent device or not, and transferring data packets containing data to be transmitted to the correspondent device to a prescribed another computer connected to the computer network such that the data to be transmitted to the correspondent device are transmitted to the correspondent device from the prescribed another computer when it is determined that the prescribed condition is satisfied for the communications with the correspondence device.

15. (Original) The radio portable terminal device of claim 14, wherein the packet transfer processing unit transfers the data packets to the prescribed another computer by attaching an information for requesting the prescribed another computer to transmit the data contained in the data packets to the correspondent device, when the data to be transmitted to the correspondent device have a specific type of attribute.

16. (Original) The radio portable terminal device of claim 14, wherein the packet transfer processing unit determines to request the prescribed another computer to carry out the communications with the correspondent device on behalf of the radio portable terminal device when it is judged that a cost required for carrying out the communications between the correspondent device and the radio portable terminal device and a cost required for carrying out the communications between the correspondent device and the prescribed another computer are in a prescribed relationship.

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17. (Original) The radio portable terminal device of claim 14, wherein the prescribed another computer is also connected to the telephone network;

the radio portable terminal device further comprises a local network communication unit for carrying out communications with another portable computer/device connected to a local network different from the computer network or the telephone network, the local network being a network locally defined for communications between the radio portable terminal device and said another portable computer/device; and

when the radio portable terminal device or said another portable computer/device carries out voice communications with the correspondent device via the prescribed another computer, the radio portable terminal device or said another portable computer/device sets up a first voice channel between the radio portable terminal device and the prescribed another computer through the computer network, and commands the prescribed another computer to set up a second voice channel between the prescribed another computer and the correspondent device, transfer voice information received from the first voice channel to the second voice channel, and transfer voice information received from the second voice channel to the first voice channel, and the radio portable terminal device transfers received voice information to a final transfer destination of the received voice information according to a data attribute tag attached to the received voice information and indicating a type of data contained in the received voice information.

18. (Original) The radio portable terminal device of claim 14, wherein the prescribed another computer is also connected to the telephone network;

the radio portable terminal device further comprises a local network communication unit for carrying out communications with another portable computer/device connected to a local network different from the computer network or the telephone network, the local network being a network locally defined for communications between the radio portable terminal device and said another portable computer/device; and

when the radio portable terminal device or said another portable computer/device carries out voice communications with the correspondent device via the prescribed another computer and a call termination from the correspondent device to the prescribed another computer occurs, the radio portable terminal device or said another portable computer/device

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commands the prescribed another computer to respond to the call termination, enable information input/output at a first voice channel between the prescribed another computer and the correspondent device through the telephone network, set up a second voice channel between the prescribed another computer and the radio portable terminal device through the computer network, produce a call termination message containing a data attribute tag indicating voice information, transfer the call termination message to the radio portable terminal device through the second voice channel, transfer voice information received from the first voice channel to the second voice channel, and transfer voice information received from the second voice channel to the first voice channel, and upon receiving the call termination message, the radio portable terminal device responds to the call termination message or transfers the call termination message to said another portable computer/device through the local network, according to a value of the data attribute tag contained in the call termination message, sets up a third voice channel between the radio portable terminal device and said another portable computer/device through the local network if the call termination message is transferred to said another portable computer/device, transfers voice information received from the second voice channel to the third voice channel while transferring voice information received from the third voice channel to the second voice channel if the third voice channel is set up.

19. (Original) The radio portable terminal device of claim 14, further comprising a memory for registering in advance priority levels assigned to a plurality of computers, and the packet transfer processing unit selects one of said plurality of computers as the prescribed another computer according to the priority levels registered in the memory.

20. (Original) The radio portable terminal device of claim 14, wherein the radio communication unit has at least one of a function for connecting the radio portable terminal device to the telephone network via the radio base station and a function for connecting the radio portable terminal device to the computer network via the radio base station and a router device.

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21. (Currently Amended) A gateway device, comprising:

a transfer unit for transferring voice data received from a network for transferring data packets, to a radio portable terminal device that is a destination of the voice data, via a telephone network through a radio base station or via the network through a router device and a radio base station; and

a control unit for judging whether a specified condition which is specified to the gateway device from the radio portable terminal device is satisfied by non-voice data that are to be transferred along with the voice data to the radio portable terminal device, if the non-voice data exist, and controlling the transfer unit to transfer the non-voice data to another computer/device without transferring the non-voice data to the radio portable terminal device when it is judged that the specified condition is satisfied by the non-voice data.

22. (Original) The gateway device of claim 21, wherein said another computer/device is a computer connected to the network or a portable computer/device connected with the radio portable terminal device by a local network which is locally defined for communications between the radio portable terminal device and the portable computer/device, and said another computer/device is specified to the gateway device from the radio portable terminal device.

23. (Original) The gateway device of claim 21, wherein the specified condition is a condition based on at least one of a size, a format, and a content of data, which is specified to the gateway device from the radio portable terminal device.

Claim 24 (Canceled)

25. (Currently Amended) A communication processing control method at a radio portable terminal device, comprising the steps of:

connecting the radio portable terminal device with a correspondent device connected to a computer network or a telephone network, through a radio base station, and receiving data packets from the correspondent device;

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determining at the radio portable terminal device whether a prescribed condition regarding communication cost is satisfied for communications with the correspondent device or not; and

transferring data packets containing data to be transmitted to the correspondent device from the radio portable terminal device to a prescribed another computer connected to the computer network such that the data to be transmitted to the correspondent device are transmitted to the correspondent device from the prescribed another computer when the determining step determines that the prescribed condition is satisfied for the communications with the correspondence device.

26. (Currently Amended) A communication processing control method at a gateway device, comprising the steps of:

transferring voice data received at the gateway device from a network for transferring data packets, to a radio portable terminal device that is a destination of the voice data, via a telephone network through a radio base station or via the network through a router device and a radio base station;

judging at the gateway device whether a specified condition which is specified to the gateway device from the radio portable terminal device is satisfied by non-voice data that are to be transferred along with the voice data to the radio portable terminal device, if the non-voice data exist; and

controlling the gateway device to transfer the non-voice data to another computer/device without transferring the non-voice data to the radio portable terminal device when the judging step Judges that the specified condition is satisfied by the non-voice data.